



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶ :

H02K 3/48, 3/40, 15/08

A1

(11) International Publication Number:

WO 97/45938

(43) International Publication Date:

4 December 1997 (04.12.97)

(21) International Application Number: PCT/SE97/00906

(22) International Filing Date: 27 May 1997 (27.05.97)

(30) Priority Data:

9602079-7	29 May 1996 (29.05.96)	SE
9604030-8	4 November 1996 (04.11.96)	SE

(71) Applicant (for all designated States except US): ASEA
BROWN BOVERI AB [SE/SE]; S-721 83 Västerås (SE).

(72) Inventors; and

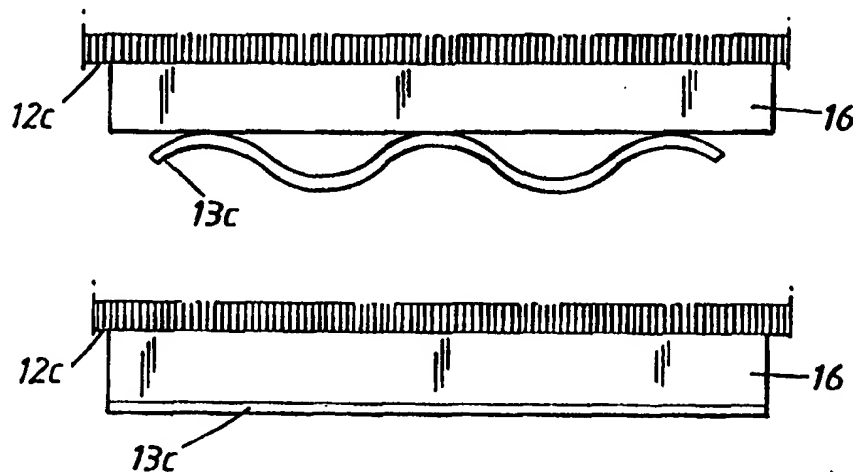
(75) Inventors/Applicants (for US only): LEIJON, Mats [SE/SE];
Hyvlargatan 5, S-723 35 Västerås (SE). ROTHMAN,
Bengt [SE/SE]; Profilgatan 16, S-723 36 Västerås (SE).
KALLDIN, Hans-Olof [SE/SE]; Grenadjärgatan 9, S-723 46
Västerås (SE). LARSSON, Bertil [SE/SE]; Sammetsvägen
12, S-724 76 Västerås (SE).(74) Agent: KARLSSON, Leif, L.A. Groth & Co. KB, P.O. Box
6107, S-102 32 Stockholm (SE).(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR,
BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE
(Utility model), DK, DK (Utility model), EE, ES, FI, FI
(Utility model), GB, GE, GH, HU, IL, IS, JP, KE, KG,
KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG,
MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU,
ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT,
LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI,
CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

*With international search report.**Before the expiration of the time limit for amending the
claims and to be republished in the event of the receipt of
amendments.**In English translation (filed in Swedish).*(54) Title: ROTATING ELECTRICAL MACHINE COMPRISING HIGH-VOLTAGE STATOR WINDING AND SPRING-DEVICE
SUPPORTING THE WINDING AND METHOD FOR MANUFACTURING SUCH MACHINE

(57) Abstract

The invention relates to a method in the manufacture of a rotating electric machine. The stator windings are obtained by drawing a high-voltage cable with an outer semi-conducting layer through slots in the stator. To avoid damaging vibrations in the windings these should be supported at least at some points, and to permit thermal expansion the supports should be resilient. Spring members are therefore arranged in the stator slots. According to the invention these are applied in the slots in deactivated state, i.e. they do not exert any spring action. They are therefore not in the way and do not impede passage of the cable when the stator is wound. When winding is complete the spring members are activated to abutment against the cable parts, clamping them firmly in the slots. The invention also relates to a rotating electric machine provided with such spring members, said spring members consisting of corrugated plate springs (13c).



When winding is complete the spring members are activated to abutment against the cable parts, clamping them firmly in the slots. The invention also relates to a rotating electric machine provided with such spring members, said spring members consisting of corrugated plate springs (13c).